

Section II
Soil and Site Information

Construction Materials Table 2
Custer and Pennington
Counties, Black Hills Parts,
South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| ApA: Arvada Variant----- | 85 | Poor Sodium content Low content of organic matter Salinity Too clayey Water erosion | 0.00 0.50 0.50 0.76 0.99 | Poor Low strength Shrink-swell Depth to saturated zone | 0.00 0.12 0.53 | Poor Salinity Sodium content Too Clayey Depth to saturated zone | 0.00 0.00 0.49 0.53 |
| AsA: Arvada----- | 55 | Poor Sodium content Too alkaline Low content of organic matter Too clayey Water erosion | 0.00 0.00 0.12 0.24 0.99 | Poor Low strength Shrink-swell | 0.00 0.12 | Poor Sodium content Too Clayey Rock fragments | 0.00 0.14 0.97 |
| Slickspots, Dry----- | 30 | Not rated | | Not rated | | Not rated | |
| BdA: Barnum----- | 85 | Fair Low content of organic matter Water erosion | 0.88 0.99 | Fair Low strength Shrink-swell | 0.22 0.87 | Fair Salinity | 0.88 |
| BeB: Barnum----- | 55 | Fair Low content of organic matter Water erosion | 0.88 0.99 | Fair Low strength Shrink-swell | 0.22 0.87 | Fair Salinity | 0.88 |
| Winetti----- | 30 | Fair Low content of organic matter Droughty | 0.12 0.54 | Good | | Poor Hard to reclaim Rock fragments | 0.00 0.12 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|------------------------------------------------------------------|----------------------|-----------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| BrA: Bullflat----- | 85 | Fair Low content of organic matter Water erosion | 0.12 0.90 | Good | | Poor Hard to reclaim Rock fragments | 0.00 0.95 |
| BrB: Bullflat----- | 85 | Fair Low content of organic matter Water erosion | 0.12 0.90 | Good | | Poor Hard to reclaim Rock fragments | 0.00 0.95 |
| BsB: Bullflat----- | 50 | Fair Low content of organic matter Water erosion | 0.12 0.90 | Good | | Poor Hard to reclaim Rock fragments | 0.00 0.95 |
| Cordeston----- | 35 | Good | | Fair Shrink-swell | 0.98 | Good | |
| BtE: Buska----- | 40 | Fair Droughty | 0.49 | Poor Slope Depth to bedrock Cobble content | 0.00 0.58 0.88 | Poor Slope Rock fragments | 0.00 0.00 |
| Mocmont----- | 25 | Fair Low content of organic matter Droughty Too acid | 0.50 0.68 0.97 | Poor Slope Shrink-swell | 0.00 0.96 | Poor Rock fragments Hard to reclaim Slope | 0.00 0.00 0.00 |
| Rock Outcrop, Hard-- | 20 | Not rated | | Not rated | | Not rated | |
| BuE: Buska----- | 55 | Fair Droughty | 0.49 | Poor Slope Depth to bedrock Cobble content | 0.00 0.58 0.88 | Poor Slope Rock fragments | 0.00 0.00 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|--------------------------------------------------------------------------|----------------------|--------------------------------------------|--------------|-----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Rock Outcrop, Hard-- | 25 | Not rated | | Not rated | | Not rated | |
| BvC: Buska----- | 50 | Fair Droughty | 0.49 | Fair Depth to bedrock Cobble content | 0.58 0.88 | Poor Rock fragments Slope | 0.00 0.63 |
| Virkula----- | 30 | Fair Too acid Low content of organic matter | 0.84 0.88 | Poor Low strength Shrink-swell | 0.00 0.90 | Fair Hard to reclaim | 0.50 |
| BwE: Butche----- | 60 | Poor Droughty Depth to bedrock Low content of organic matter | 0.00 0.00 0.88 | Not Rated Depth to bedrock Slope | 0.00 0.00 | Poor Slope Depth to bedrock Rock fragments | 0.00 0.00 0.00 |
| Rock Outcrop, Hard-- | 25 | Not rated | | Not rated | | Not rated | |
| CcE: Canyon----- | 55 | Poor Droughty Depth to bedrock Low content of organic matter | 0.00 0.00 0.88 | Poor Depth to bedrock | 0.00 | Poor Depth to bedrock Rock fragments Slope | 0.00 0.03 0.37 |
| Bridget----- | 30 | Fair Low content of organic matter Water erosion | 0.88 0.90 | Fair Low strength | 0.78 | Fair Slope | 0.84 |
| CdF: Canyon----- | 60 | Poor Droughty Depth to bedrock Low content of organic matter | 0.00 0.00 0.88 | Poor Depth to bedrock Slope | 0.00 0.00 | Poor Slope Depth to bedrock Rock fragments | 0.00 0.00 0.03 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|-------------------------------------------------------------------------------------|------------------------------|---------------------------------------|--------------|-------------------------------------------------------------|--------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Rock Outcrop, Sandy- | 25 | Not rated | | Not rated | | Not rated | |
| CkC: Citadel----- | 50 | Poor Too clayey Low content of organic matter Too acid Water erosion | 0.00 0.88 0.97 0.99 | Poor Low strength Shrink-swell | 0.00 0.51 | Poor Too Clayey Hard to reclaim Rock fragments | 0.00 0.02 0.95 |
| Vanocker----- | 30 | Poor Stone content | 0.00 | Poor Stone content Shrink-swell | 0.00 0.87 | Poor Rock fragments Hard to reclaim | 0.00 0.00 |
| CoA: Colombo----- | 85 | Fair Low content of organic matter | 0.50 | Good | | Fair Rock fragments | 0.97 |
| CpA: Colombo----- | 70 | Fair Low content of organic matter | 0.50 | Good | | Fair Rock fragments | 0.97 |
| Urban Land----- | 15 | Not rated | | Not rated | | Not rated | |
| CvB: Cordeston----- | 85 | Good | | Fair Shrink-swell | 0.98 | Good | |
| CwB: Cordeston----- | 55 | Good | | Fair Shrink-swell | 0.98 | Good | |
| Marshbrook----- | 30 | Good | | Poor Depth to saturated zone | 0.00 | Poor Depth to saturated zone Hard to reclaim | 0.00 0.92 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------|----------------------|--------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| CxC: Cordeston----- | 60 | Good | | Fair Shrink-swell | 0.98 | Good | |
| Winetti----- | 25 | Poor Too sandy Low content of organic matter Droughty | 0.00 0.12 0.54 | Good | | Poor Hard to reclaim Too sandy Rock fragments | 0.00 0.00 0.12 |
| DgB: Demar----- | 40 | Poor Too clayey Too acid Low content of organic matter Salinity Sodium content Water erosion | 0.00 0.03 0.12 0.50 0.90 0.99 | Poor Low strength Shrink-swell | 0.00 0.12 | Poor Salinity Too Clayey Too acid Sodium content | 0.00 0.00 0.32 0.90 |
| Grummit----- | 25 | Poor Too clayey Droughty Depth to bedrock Too acid | 0.00 0.00 0.00 0.08 | Poor Depth to bedrock Low strength Shrink-swell | 0.00 0.00 0.87 | Poor Too Clayey Depth to bedrock Too acid | 0.00 0.00 0.50 |
| Slickspots, Dry----- | 20 | Not rated | | Not rated | | Not rated | |
| GbA: Glenberg----- | 85 | Fair Low content of organic matter | 0.12 | Good | | Fair Rock fragments | 0.97 |
| GrD: Grummit----- | 60 | Poor Too clayey Droughty Depth to bedrock Too acid | 0.00 0.00 0.00 0.08 | Poor Depth to bedrock Low strength Shrink-swell | 0.00 0.00 0.87 | Poor Too Clayey Depth to bedrock Too acid Slope | 0.00 0.00 0.50 0.63 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Rock Outcrop, Acid-- | 25 | Not rated | | Not rated | | Not rated | |
| GrF: Grummit----- | 50 | Poor Too clayey Droughty Depth to bedrock Too acid | 0.00 0.00 0.00 0.08 | Poor Depth to bedrock Slope Low strength Shrink-swell | 0.00 0.00 0.00 0.87 | Poor Slope Too Clayey Depth to bedrock Too acid | 0.00 0.00 0.00 0.50 |
| Rock Outcrop, Acid-- | 35 | Not rated | | Not rated | | Not rated | |
| GuC: Gurney----- | 55 | Fair Depth to bedrock Droughty Low content of organic matter | 0.58 0.72 0.88 | Poor Depth to bedrock Low strength | 0.00 0.00 | Fair Rock fragments Depth to bedrock | 0.50 0.58 |
| Butche----- | 25 | Poor Droughty Depth to bedrock Low content of organic matter | 0.00 0.00 0.88 | Not Rated Depth to bedrock | 0.00 | Poor Depth to bedrock Rock fragments | 0.00 0.00 |
| GvD: Gypnevee----- | 45 | Fair Low content of organic matter Water erosion | 0.50 0.90 | Fair Depth to bedrock | 0.58 | Fair Slope | 0.63 |
| Rekop----- | 25 | Poor Droughty Depth to bedrock Low content of organic matter Carbonate content | 0.00 0.00 0.12 0.80 | Poor Depth to bedrock | 0.00 | Poor Depth to bedrock Rock fragments Slope Carbonate content | 0.00 0.12 0.37 0.80 |
| Rock Outcrop, Sandy- | 15 | Not rated | | Not rated | | Not rated | |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|------------------------------------------------------------------------|----------------------|-----------------------------------------------------|----------------------|-----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| GyD: Gypnevee----- | 40 | Fair Low content of organic matter Water erosion | 0.50 0.90 | Fair Depth to bedrock | 0.58 | Fair Slope | 0.37 |
| Rock Outcrop, Sandy- | 25 | Not rated | | Not rated | | Not rated | |
| Urban Land----- | 20 | Not rated | | Not rated | | Not rated | |
| HaA: Haverson----- | 85 | Fair Low content of organic matter | 0.50 | Fair Shrink-swell | 0.87 | Good | |
| HeE: Heely----- | 85 | Fair Droughty Cobble content Depth to bedrock | 0.02 0.03 0.58 | Poor Depth to bedrock Slope Cobble content | 0.00 0.00 0.00 | Poor Slope Rock fragments Depth to bedrock | 0.00 0.00 0.58 |
| HfC: Heely----- | 55 | Fair Droughty Cobble content Depth to bedrock | 0.02 0.03 0.58 | Poor Depth to bedrock Cobble content | 0.00 0.00 | Poor Rock fragments Depth to bedrock Slope | 0.00 0.58 0.63 |
| Cordeston----- | 30 | Good | | Fair Shrink-swell | 0.98 | Good | |
| HgB: Hilger----- | 85 | Poor Cobble content Low content of organic matter Droughty | 0.00 0.12 0.26 | Poor Cobble content | 0.00 | Poor Hard to reclaim Rock fragments | 0.00 0.00 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|----------------------|--------------------------------------------------------|--------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| HgD: Hilger----- | 85 | Poor Cobble content Low content of organic matter Droughty | 0.00 0.12 0.26 | Poor Cobble content Slope | 0.00 0.08 | Poor Hard to reclaim Rock fragments Slope | 0.00 0.00 0.00 |
| HmE: Hilger----- | 60 | Poor Cobble content Low content of organic matter Droughty | 0.00 0.12 0.26 | Poor Cobble content Slope | 0.00 0.00 | Poor Hard to reclaim Rock fragments Slope | 0.00 0.00 0.00 |
| Metre----- | 25 | Poor Too clayey Droughty Depth to bedrock Water erosion | 0.00 0.01 0.58 0.99 | Poor Depth to bedrock Shrink-swell Low strength | 0.00 0.00 0.00 | Poor Too Clayey Slope Depth to bedrock | 0.00 0.16 0.58 |
| HnB: Hilger----- | 65 | Poor Cobble content Low content of organic matter Droughty | 0.00 0.12 0.26 | Poor Cobble content | 0.00 | Poor Hard to reclaim Rock fragments | 0.00 0.00 |
| Urban Land----- | 20 | Not rated | | Not rated | | Not rated | |
| HoD: Hilger----- | 50 | Poor Cobble content Low content of organic matter Droughty | 0.00 0.12 0.26 | Poor Cobble content Slope | 0.00 0.98 | Poor Hard to reclaim Rock fragments Slope | 0.00 0.00 0.00 |
| Virkula----- | 35 | Fair Too acid Low content of organic matter | 0.84 0.88 | Poor Low strength Shrink-swell | 0.00 0.87 | Fair Slope Hard to reclaim | 0.04 0.50 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| HtG: Hopdraw----- | 40 | Poor Too sandy Wind erosion Droughty Low content of organic matter Cobble content Stone content | 0.00 0.00 0.01 0.12 0.51 0.98 | Poor Slope Cobble content Depth to bedrock Stone content | 0.00 0.00 0.58 0.82 | Poor Slope Too sandy Rock fragments | 0.00 0.00 0.00 |
| Sawdust----- | 30 | Poor Cobble content Low content of organic matter | 0.00 0.50 | Poor Slope Cobble content | 0.00 0.00 | Poor Slope Hard to reclaim Rock fragments | 0.00 0.00 0.00 |
| Rock Outcrop, Sandy- | 15 | Not rated | | Not rated | | Not rated | |
| JhD: Judy----- | 40 | Poor Too clayey Droughty Depth to bedrock Water erosion | 0.00 0.11 0.58 0.99 | Poor Depth to bedrock Low strength Shrink-swell | 0.00 0.00 0.73 | Poor Too Clayey Depth to bedrock Slope Rock fragments | 0.00 0.58 0.96 0.97 |
| Heath----- | 30 | Poor Too clayey Water erosion | 0.00 0.99 | Poor Low strength Shrink-swell | 0.00 0.47 | Poor Too Clayey Slope | 0.00 0.96 |
| Paunsaugunt Variant- | 20 | Poor Droughty Depth to bedrock | 0.00 0.00 | Not Rated Depth to bedrock | 0.00 | Poor Rock fragments Depth to bedrock Slope | 0.00 0.00 0.04 |
| M-W: Miscellaneous Water- | 100 | Not rated | | Not rated | | Not rated | |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------|----------------------|-------------------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| MhA: Marshbrook----- | 85 | Good | | Poor Depth to saturated zone | 0.00 | Poor Depth to saturated zone Hard to reclaim | 0.00 0.92 |
| MnC: Metre----- | 50 | Poor Too clayey Droughty Depth to bedrock Water erosion | 0.00 0.01 0.58 0.99 | Poor Depth to bedrock Shrink-swell Low strength | 0.00 0.00 0.00 | Poor Too Clayey Depth to bedrock | 0.00 0.58 |
| Norrest----- | 35 | Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion | 0.00 0.51 0.58 0.80 0.88 0.99 | Poor Depth to bedrock Low strength Shrink-swell | 0.00 0.00 0.12 | Poor Too Clayey Depth to bedrock Carbonate content | 0.00 0.58 0.80 |
| MsC: Mocmont----- | 85 | Fair Low content of organic matter Droughty Too acid | 0.50 0.68 0.97 | Fair Shrink-swell | 0.96 | Poor Rock fragments Hard to reclaim | 0.00 0.00 |
| MtE: Mocmont----- | 55 | Fair Low content of organic matter Droughty Too acid | 0.50 0.68 0.97 | Poor Slope Shrink-swell | 0.00 0.96 | Poor Slope Rock fragments Hard to reclaim | 0.00 0.00 0.00 |
| Rock Outcrop, Hard-- | 30 | Not rated | | Not rated | | Not rated | |

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|-----------------------------|---------------------------|--------------------------------------------------------------------------------|----------------------|-----------------------------------------------|----------------------|-------------------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| NaC: Nevee----- | 85 | Fair Low content of organic matter Carbonate content | 0.50 0.92 | Fair Low strength Cobble content | 0.22 0.82 | Fair Hard to reclaim Rock fragments Slope Carbonate content | 0.12 0.12 0.63 0.92 |
| NbC: Nevee----- | 85 | Fair Low content of organic matter Water erosion Carbonate content | 0.50 0.90 0.92 | Fair Low strength | 0.22 | Fair Carbonate content | 0.92 |
| NcE: Nevee----- | 60 | Fair Low content of organic matter Water erosion Carbonate content | 0.50 0.90 0.92 | Fair Low strength Slope | 0.22 0.50 | Poor Slope Carbonate content | 0.00 0.92 |
| Gullied Land----- | 35 | Not rated | | Not rated | | Not rated | |
| NfE: Nihill----- | 50 | Fair Low content of organic matter Droughty | 0.12 0.89 | Poor Slope | 0.00 | Poor Slope Hard to reclaim Rock fragments | 0.00 0.00 0.00 |
| Zigweid----- | 40 | Fair Low content of organic matter | 0.50 | Poor Low strength Slope Shrink-swell | 0.00 0.82 0.87 | Poor Slope | 0.00 |

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|-----------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| NnE: Norrest----- | 50 | Fair Low content of organic matter Droughty Depth to bedrock Too clayey Water erosion | 0.12 0.43 0.58 0.76 0.99 | Poor Depth to bedrock Low strength Shrink-swell Slope | 0.00 0.00 0.12 0.50 | Poor Slope Too Clayey Depth to bedrock | 0.00 0.44 0.58 |
| Fairburn----- | 20 | Poor Depth to bedrock Droughty Low content of organic matter Water erosion | 0.00 0.00 0.50 0.90 | Poor Depth to bedrock Low strength Shrink-swell Slope | 0.00 0.00 0.87 0.92 | Poor Depth to bedrock Slope | 0.00 0.00 |
| Metre----- | 15 | Poor Too clayey Droughty Depth to bedrock Water erosion | 0.00 0.01 0.58 0.99 | Poor Depth to bedrock Shrink-swell Low strength | 0.00 0.00 0.00 | Poor Too Clayey Slope Depth to bedrock | 0.00 0.37 0.58 |
| Or: Orthents, Loamy----- | 80 | Not rated | | Not rated | | Not rated | |
| Orthents, Shaly----- | 20 | Not rated | | Not rated | | Not rated | |
| PaE: Pactola----- | 50 | Fair Droughty Low content of organic matter Cobble content Stone content Too acid Too clayey | 0.25 0.50 0.64 0.73 0.95 0.98 | Poor Slope Cobble content Stone content Depth to bedrock Shrink-swell | 0.00 0.00 0.16 0.58 0.98 | Poor Slope Rock fragments Too Clayey | 0.00 0.00 0.64 |

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|-----------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------|----------------------|----------------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Virkula----- | 20 | Fair Too acid Low content of organic matter | 0.84 0.88 | Poor Low strength Slope Shrink-swell | 0.00 0.82 0.90 | Poor Slope Hard to reclaim | 0.00 0.50 |
| Rock Outcrop, Hard-- | 15 | Not rated | | Not rated | | Not rated | |
| PbD: Paunsaugunt----- | 50 | Poor Droughty Depth to bedrock | 0.00 0.00 | Not Rated Depth to bedrock | 0.00 | Poor Rock fragments Depth to bedrock Slope | 0.00 0.00 0.96 |
| Gurney----- | 35 | Fair Depth to bedrock Droughty Low content of organic matter | 0.58 0.72 0.88 | Poor Depth to bedrock Low strength | 0.00 0.00 | Fair Rock fragments Depth to bedrock | 0.50 0.58 |
| PcD: Paunsaugunt----- | 50 | Poor Droughty Depth to bedrock | 0.00 0.00 | Not Rated Depth to bedrock Slope | 0.00 0.00 | Poor Slope Rock fragments Depth to bedrock | 0.00 0.00 0.00 |
| Rock Outcrop, Sandy- | 35 | Not rated | | Not rated | | Not rated | |
| PgC: Pierre----- | 50 | Poor Too clayey Droughty Low content of organic matter Depth to bedrock Sodium content Water erosion | 0.00 0.00 0.50 0.58 0.90 0.99 | Poor Depth to bedrock Shrink-swell Low strength | 0.00 0.00 0.00 | Poor Too Clayey Depth to bedrock Sodium content | 0.00 0.58 0.90 |

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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|------------------------------|---------------------------|-----------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------|----------------------|--------------------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Grummit----- | 35 | Poor Too clayey Droughty Depth to bedrock Too acid | 0.00 0.00 0.00 0.08 | Poor Depth to bedrock Low strength Shrink-swell | 0.00 0.00 0.96 | Poor Too Clayey Depth to bedrock Too acid | 0.00 0.00 0.50 |
| Pt: Rock Outcrop, Hard-- | 100 | Not rated | | Not rated | | Not rated | |
| ReC: Redbird----- | 50 | Fair Cobble content Stone content Low content of organic matter | 0.01 0.17 0.50 | Poor Cobble content Stone content | 0.00 0.40 | Poor Hard to reclaim Rock fragments | 0.00 0.00 |
| Heath----- | 30 | Poor Too clayey Water erosion | 0.00 0.99 | Poor Low strength Shrink-swell | 0.00 0.47 | Poor Too Clayey | 0.00 |
| RfE: Rekop----- | 40 | Poor Droughty Depth to bedrock Low content of organic matter Carbonate content | 0.00 0.00 0.12 0.80 | Poor Depth to bedrock Slope | 0.00 0.00 | Poor Slope Depth to bedrock Rock fragments Carbonate content | 0.00 0.00 0.12 0.80 |
| Gypnevee----- | 30 | Fair Low content of organic matter Water erosion | 0.50 0.90 | Fair Slope Depth to bedrock | 0.50 0.58 | Poor Slope | 0.00 |
| Rock Outcrop, Sandy- | 15 | Not rated | | Not rated | | Not rated | |
| RgG: Rock Outcrop, Hard-- | 45 | Not rated | | Not rated | | Not rated | |

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Construction Materials Table 2
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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Buska----- | 40 | Fair Droughty | 0.49 | Poor Slope Depth to bedrock Cobble content | 0.00 0.58 0.88 | Poor Slope Rock fragments | 0.00 0.00 |
| RhD: Rock Outcrop, Sandy- | 55 | Not rated | | Not rated | | Not rated | |
| Butche----- | 30 | Poor Droughty Depth to bedrock Low content of organic matter | 0.00 0.00 0.88 | Not Rated Depth to bedrock | 0.00 | Poor Depth to bedrock Rock fragments Slope | 0.00 0.00 0.04 |
| RkG: Rock Outcrop, Hard-- | 45 | Not rated | | Not rated | | Not rated | |
| Mocmont----- | 35 | Fair Low content of organic matter Droughty Too acid | 0.50 0.68 0.97 | Poor Slope Shrink-swell | 0.00 0.96 | Poor Slope Rock fragments Hard to reclaim | 0.00 0.00 0.00 |
| RlG: Rock Outcrop, Hard-- | 45 | Not rated | | Not rated | | Not rated | |
| Pactola----- | 35 | Fair Droughty Low content of organic matter Cobble content Stone content Too acid Too clayey | 0.25 0.50 0.64 0.73 0.95 0.98 | Poor Slope Cobble content Stone content Depth to bedrock Shrink-swell | 0.00 0.00 0.16 0.58 0.98 | Poor Slope Rock fragments Too Clayey | 0.00 0.00 0.64 |
| RmG: Rock Outcrop, Sandy- | 45 | Not rated | | Not rated | | Not rated | |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|------------------------------|---------------------------|-----------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|----------------------|--------------------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Rekop----- | 40 | Poor Droughty Depth to bedrock Low content of organic matter Carbonate content | 0.00 0.00 0.12 0.80 | Poor Depth to bedrock Slope | 0.00 0.00 | Poor Slope Depth to bedrock Rock fragments Carbonate content | 0.00 0.00 0.12 0.80 |
| RnG: Rock Outcrop, Sandy- | 45 | Not rated | | Not rated | | Not rated | |
| Sawdust----- | 40 | Poor Cobble content Low content of organic matter | 0.00 0.50 | Poor Slope Cobble content | 0.00 0.00 | Poor Slope Hard to reclaim Rock fragments | 0.00 0.00 0.00 |
| RpC: Rockoa----- | 50 | Fair Cobble content Low content of organic matter Stone content | 0.03 0.12 0.82 | Poor Cobble content Stone content | 0.00 0.82 | Poor Hard to reclaim Rock fragments | 0.00 0.00 |
| Lakoa----- | 30 | Fair Low content of organic matter Too acid | 0.12 0.84 | Fair Shrink-swell | 0.87 | Fair Hard to reclaim | 0.50 |
| RrE: Rockoa----- | 40 | Fair Cobble content Low content of organic matter Stone content | 0.03 0.12 0.82 | Poor Cobble content Slope Stone content | 0.00 0.00 0.82 | Poor Hard to reclaim Rock fragments Slope | 0.00 0.00 0.00 |
| Lakoa----- | 30 | Fair Low content of organic matter Too acid | 0.12 0.84 | Fair Slope Shrink-swell | 0.50 0.87 | Poor Slope Hard to reclaim | 0.00 0.00 0.50 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------|----------------------|--------------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Rock Outcrop, Sandy- | 15 | Not rated | | Not rated | | Not rated | |
| RsF: Rockoa----- | 55 | Fair Cobble content Low content of organic matter Stone content | 0.03 0.12 0.82 | Poor Slope Cobble content Stone content | 0.00 0.00 0.82 | Poor Slope Hard to reclaim Rock fragments | 0.00 0.00 0.00 |
| Rock Outcrop, Sandy- | 25 | Not rated | | Not rated | | Not rated | |
| RtD: Rockoa----- | 50 | Fair Cobble content Low content of organic matter Stone content | 0.03 0.12 0.82 | Poor Cobble content Slope Stone content | 0.00 0.82 0.82 | Poor Hard to reclaim Rock fragments Slope | 0.00 0.00 0.00 |
| Satanta----- | 35 | Fair Low content of organic matter | 0.88 | Good | | Good | |
| SeB: Satanta----- | 90 | Fair Low content of organic matter | 0.88 | Good | | Good | |
| SfB: Satanta----- | 55 | Fair Low content of organic matter | 0.88 | Good | | Good | |
| Arvada----- | 30 | Poor Sodium content Too alkaline Low content of organic matter Too clayey Water erosion | 0.00 0.00 0.12 0.24 0.99 | Poor Low strength Shrink-swell | 0.00 0.12 | Poor Sodium content Too Clayey Rock fragments | 0.00 0.14 0.97 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|------------------------------|-----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| ShD: Satanta----- | 60 | Fair Low content of organic matter | 0.88 | Good | | Good | |
| Canyon----- | 25 | Poor Droughty Depth to bedrock Low content of organic matter | 0.00 0.00 0.88 | Poor Depth to bedrock | 0.00 | Poor Depth to bedrock Rock fragments Slope | 0.00 0.03 0.37 |
| SpE: Sawdust----- | 40 | Poor Cobble content Low content of organic matter | 0.00 0.50 | Poor Cobble content Slope | 0.00 0.00 | Poor Slope Hard to reclaim Rock fragments | 0.00 0.00 0.00 |
| Hopdraw----- | 25 | Poor Too sandy Wind erosion Droughty Low content of organic matter Cobble content Stone content | 0.00 0.00 0.01 0.12 0.51 0.98 | Poor Cobble content Slope Depth to bedrock Stone content | 0.00 0.00 0.58 0.82 | Poor Too sandy Rock fragments Slope | 0.00 0.00 0.00 |
| Paunsaugunt----- | 20 | Poor Droughty Depth to bedrock | 0.00 0.00 | Not Rated Depth to bedrock Slope | 0.00 0.00 | Poor Slope Rock fragments Depth to bedrock | 0.00 0.00 0.00 |
| SrE: Sawdust----- | 40 | Poor Cobble content Low content of organic matter | 0.00 0.50 | Poor Cobble content Slope | 0.00 0.00 | Poor Slope Hard to reclaim Rock fragments | 0.00 0.00 0.00 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|---------------------------------|---------------------------|------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|----------------------|-----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Vanocker----- | 25 | Poor Stone content | 0.00 | Poor Slope Stone content Shrink-swell | 0.00 0.00 0.87 | Poor Slope Rock fragments Hard to reclaim | 0.00 0.00 0.00 |
| Paunsaugunt----- | 15 | Poor Droughty Depth to bedrock | 0.00 0.00 | Not Rated Depth to bedrock Slope | 0.00 0.00 | Poor Slope Rock fragments Depth to bedrock | 0.00 0.00 0.00 |
| SwE: Shirttail----- | 80 | Poor Cobble content Droughty Low content of organic matter Too acid | 0.00 0.50 0.50 0.97 | Poor Slope Cobble content Depth to bedrock | 0.00 0.00 0.58 | Poor Slope Rock fragments | 0.00 0.00 |
| SxaE: Spearfish----- | 45 | Poor Droughty Depth to bedrock | 0.00 0.00 | Poor Depth to bedrock Slope | 0.00 0.92 | Poor Depth to bedrock Slope | 0.00 0.00 |
| Nevee----- | 40 | Fair Low content of organic matter Water erosion Carbonate content | 0.50 0.90 0.92 | Fair Low strength Slope | 0.22 0.50 | Poor Slope Carbonate content | 0.00 0.92 |
| SxbF: Spearfish----- | 50 | Poor Droughty Depth to bedrock | 0.00 0.00 | Poor Depth to bedrock Slope | 0.00 0.00 | Poor Slope Depth to bedrock | 0.00 0.00 |
| Rock Outcrop, Sandstone----- | 35 | Not rated | | Not rated | | Not rated | |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------|----------------------|------------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| SyaC: Stovho----- | 80 | Fair Low content of organic matter Too clayey Water erosion Too acid | 0.12 0.12 0.90 0.95 | Fair Low strength Shrink-swell | 0.78 0.79 | Poor Hard to reclaim Too Clayey Rock fragments Slope | 0.00 0.08 0.88 0.96 |
| SybC: Stovho----- | 40 | Fair Low content of organic matter Too clayey Water erosion Too acid | 0.12 0.12 0.90 0.95 | Fair Low strength Shrink-swell | 0.78 0.79 | Poor Hard to reclaim Too Clayey Rock fragments | 0.00 0.08 0.88 |
| Lail----- | 25 | Poor Too clayey Low content of organic matter Water erosion | 0.00 0.88 0.99 | Poor Low strength Shrink-swell | 0.00 0.51 | Poor Too Clayey Rock fragments | 0.00 0.97 |
| Trebor----- | 20 | Poor Droughty Low content of organic matter Depth to bedrock Cobble content Too acid | 0.00 0.50 0.58 0.81 0.95 | Poor Depth to bedrock Cobble content Shrink-swell | 0.00 0.48 0.89 | Poor Rock fragments Depth to bedrock Slope | 0.00 0.58 0.96 |
| SycE: Stovho----- | 50 | Fair Low content of organic matter Too clayey Water erosion Too acid | 0.12 0.12 0.90 0.95 | Poor Slope Low strength Shrink-swell | 0.00 0.78 0.79 | Poor Slope Hard to reclaim Too Clayey Rock fragments | 0.00 0.00 0.08 0.88 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|------------------------------|-----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Trebor----- | 35 | Poor Droughty Low content of organic matter Depth to bedrock Cobble content Too acid | 0.00 0.50 0.58 0.81 0.95 | Poor Depth to bedrock Slope Cobble content Shrink-swell | 0.00 0.00 0.48 0.89 | Poor Slope Rock fragments Depth to bedrock | 0.00 0.00 0.58 |
| TfA: Tilford----- | 85 | Fair Low content of organic matter Water erosion | 0.50 0.90 | Fair Low strength | 0.78 | Good | |
| TfB: Tilford----- | 85 | Fair Low content of organic matter Water erosion | 0.50 0.90 | Fair Low strength | 0.78 | Good | |
| TfC: Tilford----- | 85 | Fair Low content of organic matter Water erosion | 0.50 0.90 | Fair Low strength | 0.78 | Good | |
| TpC: Tilford----- | 50 | Fair Low content of organic matter Water erosion | 0.50 0.90 | Fair Low strength | 0.78 | Good | |
| Paunsaugunt----- | 35 | Poor Droughty Depth to bedrock | 0.00 0.00 | Not Rated Depth to bedrock | 0.00 | Poor Rock fragments Depth to bedrock | 0.00 0.00 |
| TrB: Tilford----- | 55 | Fair Low content of organic matter Water erosion | 0.50 0.90 | Fair Low strength | 0.78 | Good | |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|------------------------------|------------------------------------------------------------------|------------------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Urban Land----- | 30 | Not rated | | Not rated | | Not rated | |
| TuG: Trebor----- | 60 | Poor Droughty Low content of organic matter Depth to bedrock Cobble content Too acid | 0.00 0.50 0.58 0.81 0.95 | Poor Depth to bedrock Slope Cobble content Shrink-swell | 0.00 0.00 0.48 0.89 | Poor Slope Rock fragments Depth to bedrock | 0.00 0.00 0.58 |
| Rock Outcrop, Sandy- | 25 | Not rated | | Not rated | | Not rated | |
| VcE: Vanocker----- | 55 | Poor Stone content | 0.00 | Poor Slope Stone content Shrink-swell | 0.00 0.00 0.87 | Poor Slope Rock fragments Hard to reclaim | 0.00 0.00 0.00 |
| Citadel----- | 25 | Poor Too clayey Low content of organic matter Too acid Water erosion | 0.00 0.88 0.97 0.99 | Poor Low strength Shrink-swell Slope | 0.00 0.51 0.82 | Poor Too Clayey Slope Hard to reclaim Rock fragments | 0.00 0.00 0.02 0.95 |
| VkE: Vanocker----- | 50 | Poor Stone content | 0.00 | Poor Slope Stone content Shrink-swell | 0.00 0.00 0.87 | Poor Slope Rock fragments Hard to reclaim | 0.00 0.00 0.00 |
| Lakoa----- | 30 | Fair Low content of organic matter Too acid | 0.12 0.84 | Fair Slope Shrink-swell | 0.50 0.87 | Poor Slope Hard to reclaim | 0.00 0.50 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------|------------------------------|-----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| VnC: Vanocker----- | 55 | Poor Stone content | 0.00 | Poor Stone content Shrink-swell | 0.00 0.87 | Poor Rock fragments Hard to reclaim Slope | 0.00 0.00 0.96 |
| Paunsaugunt----- | 30 | Poor Droughty Depth to bedrock | 0.00 0.00 | Not Rated Depth to bedrock | 0.00 | Poor Rock fragments Depth to bedrock Slope | 0.00 0.00 0.96 |
| VoG: Vanocker----- | 40 | Poor Stone content | 0.00 | Poor Slope Stone content Shrink-swell | 0.00 0.00 0.87 | Poor Slope Rock fragments Hard to reclaim | 0.00 0.00 0.00 |
| Sawdust----- | 30 | Poor Cobble content Low content of organic matter | 0.00 0.50 | Poor Slope Cobble content | 0.00 0.00 | Poor Slope Hard to reclaim Rock fragments | 0.00 0.00 0.00 |
| Rock Outcrop, Sandy- | 15 | Not rated | | Not rated | | Not rated | |
| VpC: Virkula----- | 50 | Fair Too acid Low content of organic matter | 0.84 0.88 | Poor Low strength Shrink-swell | 0.00 0.90 | Fair Hard to reclaim Slope | 0.50 0.96 |
| Pactola----- | 30 | Fair Droughty Low content of organic matter Cobble content Stone content Too acid Too clayey | 0.25 0.50 0.64 0.73 0.95 0.98 | Poor Cobble content Stone content Depth to bedrock Shrink-swell | 0.00 0.16 0.58 0.98 | Poor Rock fragments Slope Too Clayey | 0.00 0.63 0.64 |

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| Map symbol and soil name | Pct. of map unit | Potential source of reclamation material | | Potential source of roadfill | | Potential source of topsoil | |
|-----------------------------|---------------------------|--------------------------------------------------------------------------|----------------------|---------------------------------------|--------------|-----------------------------------------------------|----------------------|
| | | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| W: Water----- | 100 | Not rated | | Not rated | | Not rated | |
| WtB: Winetti----- | 85 | Fair Low content of organic matter Droughty | 0.12 0.54 | Good | | Poor Hard to reclaim Rock fragments | 0.00 0.12 |
| ZcC: Zigweid----- | 60 | Fair Low content of organic matter | 0.50 | Poor Low strength Shrink-swell | 0.00 0.87 | Good | |
| Canyon----- | 25 | Poor Droughty Depth to bedrock Low content of organic matter | 0.00 0.00 0.88 | Poor Depth to bedrock | 0.00 | Poor Depth to bedrock Rock fragments Slope | 0.00 0.03 0.63 |
| ZnD: Zigweid----- | 55 | Fair Low content of organic matter | 0.50 | Poor Low strength Shrink-swell | 0.00 0.87 | Fair Slope | 0.63 |
| Nihill----- | 35 | Fair Low content of organic matter Droughty | 0.12 0.89 | Good | | Poor Hard to reclaim Rock fragments Slope | 0.00 0.00 0.63 |

